

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

ORDER NO. 90-025

WATER RECLAMATION REQUIREMENTS FOR:

RICHMOND GOLF AND COUNTRY CLUB, AND  
WEST CONTRA COSTA SANITARY DISTRICT  
CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, hereinafter, Board, finds that:

1. West Contra Costa Sanitary District (hereinafter the producer) and Richmond Golf and Country Club (hereinafter the user) filed a Report of Waste Discharge dated December 12, 1989.
2. The user proposes to divert a maximum of 0.72 million gallons per day during the dry season (approximately May through September) from the producer for irrigation of his 18 hole golf course. Effluent will be diverted from a connection to the producer's transmission pipeline at Pennsylvania Avenue and Garrard Boulevard and pumped to a storage pond on the user's property.
3. The effluent will be applied via a fixed sprinkler system for irrigation of the golf course during evening evening and night hours. The locations of the golf course and Sanitary District are shown in Attachment "A" which is hereby made a part of this Order.
4. The discharge is presently governed by Waste Discharge Requirement No. 81-39 which allows discharge from the producer for reclamation use by the user.
5. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin in December 1986. For reclaimed water, the Basin Plan requires treatment sufficient to achieve quality limits prescribed by the Department of Health Services. These are presently set forth in Title 22, Sections 60301-60357 of the California Administrative Code. The requirements of this Order are in conformance with these limits.
6. The Basin Plan identifies the beneficial uses of the underlying ground waters as:

Industrial process water supply  
Municipal supply  
Agricultural uses

7. The West Contra Costa Sanitary District found and determined on the basis of an Initial Study that the project will not have a significant effect on the environment, and therefore adopted a Negative Declaration dated May 1, 1981 in accordance with the California Environmental Quality Act (Public Resources Code Section 21100).
8. The Regional Board has reviewed and considered the information contained in the Negative Declaration and finds that the document reviewed did not identify any anticipated substantial adverse effects on water resources (Title 14, California Administrative Code, Section 15064).
9. The issuance of Waste Discharge Requirements is exempt from the provisions of chapter 3 (commencing with Section 21100) of Division 13 of the Public Resources Code (California Environmental Quality Act) pursuant to Section 13389 of the California Water Code.
10. This Regional Board has notified the producer, the user, and interested agencies and persons of its intent to prescribe water reclamation requirements for the proposed uses.
11. This Board at a public meeting heard and considered all comments pertaining to this reuse.

IT IS HEREBY ORDERED, that the producer and user, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

A. Reclaimed Water Quality Specifications

1. The producer shall assure that reclaimed water pumped into the storage pond is at all times an adequately disinfected, oxidized water that does not exceed the following limits:

5-day BOD	30 mg/l (30 day Average)
	60 mg/l (Maximum Daily)
Dissolved Oxygen	1.0 mg/l, Minimum
Dissolved Sulfide	0.1 mg/l, Maximum
2. The median Most Probable Number (MPN) shall not exceed 23 coliform organisms per 100 ml of sample or 240 MPN/100 ml for any two consecutive samples at some point in the treatment process. The median value will be determined from the bacteriological results of the last seven analyses.

3. The producer shall discontinue the diversion of reclaimed water to the user during any period in which he has reason to believe the limits specified in A.1 and A.2 are not being met.

B. Reclaimed Water Use Restrictions

The user shall comply with the following restrictions for his use of reclaimed water:

1. No reclaimed water shall be applied during periods of rainfall or when soils are saturated.
2. No reclaimed water used for irrigation shall be allowed to escape to areas outside the irrigation areas, either by surface flow or airborne spray, except for minor quantities occurring as a result of normal irrigation practice.
3. Reclaimed water shall be applied to disposal area in such a manner and at such times so as to minimize exposure of golfers or other individuals to contact with spray droplets.
4. All above-ground equipment, including pumps, piping and valves, etc., which may at any time contain reclaimed water shall be adequately and clearly identified with warning signs; the user shall make all necessary additional provisions to inform the public that the liquid contained is unfit for human consumption.

C. Provisions

1. The treatment, distribution or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The Executive Officer may authorize discharge of water from the storage pond to the producer's effluent transmission line based on a demonstration that such discharge will not cause violation of applicable receiving water limitations.
3. The water from the storage pond may be discharged to the man-made creek located on the golf course only in the case of a pond overflow; water discharged to the creek by the user must not exceed effluent limits for total coliform bacteria and 5-day BOD.
4. The dissolved sulfide concentration in the reclaimed water shall be analyzed when the dissolved oxygen concentration falls below 2.0 mg/l.

5. This Order includes items 1, 2, 3, 4, 5, 8, 9 and 10 of the attached "Requirements of Design for Reclamation Facilities" dated October 1, 1975.
6. The producer and user shall file with the Regional Board technical reports of self-monitoring work performed according to detailed specifications as directed by the Executive Officer.
7. Prior to the use of reclaimed wastewater, the producer and user shall submit a report, satisfactory to the Executive Officer, describing the irrigation system design and operation to minimize any public contact with reclaimed water and to prevent possible cross connections with reclaimed water and to potable water supply systems.

The discharger shall consider and include in the preparation of the report the attached CSDHS "Guidelines for Use of Reclaimed Water for Landscape Irrigation," "Guidelines for Use of Reclaimed Water for Impoundments," and "Guidelines for Worker Protection at Water Reclamation Use Areas."

8. The producer and user shall permit the Regional Board or its authorized representatives:
  - a. Entry upon premises in which an effluent source is located or in which any required records are kept.
  - b. Access to copy any records required to be kept under terms and conditions of this Order.
  - c. Inspection of any monitoring equipment or method required by this Order.
  - d. Sampling of any discharge and reclaimed water.
9. The producer and user shall maintain in good working order and operate as efficiently as possible any facility or control system installed to achieve compliance with the water reclamation requirements.
10. The discharger shall file with the Regional Board a Report of Waste Discharge at least 180 days before making any material change or proposed change in the character, location. or volume of reuse.

I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on February 21, 1990.



STEVEN R. RITCHIE  
Executive Officer

Attachments:

Map  
CSDHS Guidelines  
Self-Monitoring Program

Pablo

RICHMOND GOLF AND COUNTRY CLUB

NEW PIPE TO POND

POND

WCCSD  
Water Pollution  
Control Plant

EXISTING 36"  
EFFLUENT PIPE

EXISTING 12"  
REUSE PIPE

PRODUCTS LINE

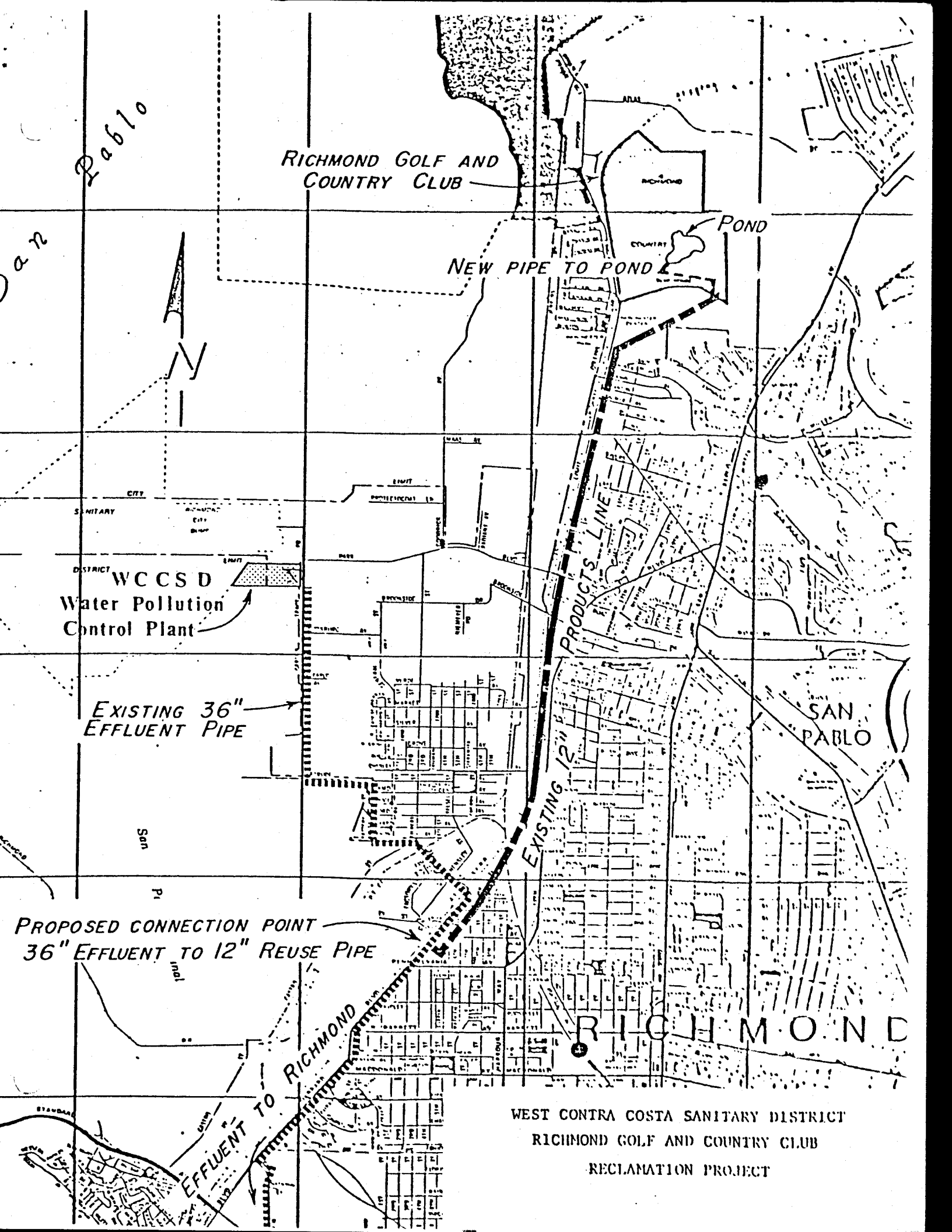
SAN PABLO

RICHMOND

PROPOSED CONNECTION POINT  
36" EFFLUENT TO 12" REUSE PIPE

EFFLUENT TO RICHMOND

WEST CONTRA COSTA SANITARY DISTRICT  
RICHMOND GOLF AND COUNTRY CLUB  
RECLAMATION PROJECT



CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM  
FOR

RICHMOND GOLF AND COUNTRY CLUB, AND  
WEST CONTRA COSTA SANITARY DISTRICT  
RICHMOND, CONTRA COSTA COUNTY

ORDER NO. 90-025

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16.

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing of the waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance; pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. MONITORING PROGRAM AND PLANT SUPERVISION

1. Schedule for sampling, and analyses of effluent shall be performed as shown on Table 1.
2. The user of reclaimed wastewater shall inspect weekly for the following:
  - a) Presence of odors as a result of spray application of wastewater, noting the presence or absence, character, source, and distance and direction of travel.
  - b) Evidence of any ponded water outside the property due to spray application and runoff of reclaimed wastewater.

Inspection stations, not more than 500 feet apart, shall be established along the perimeter of each irrigation area. Observations shall be reported for each station and all violations will be located on a sketch. The sketch will accompany every report and show the irrigation areas and inspection stations.

C. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Violations of Requirements

In the event the discharger or any user is unable to comply with the conditions of the waste discharge requirements and prohibitions for any reason the discharger or user shall notify the Regional Board and the County Health Department office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within two weeks of the telephone notification. The written report shall include pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.



2. Regular monthly self-monitoring reports shall be sent to the Regional Board by the fifteenth of the following month. The attached monitoring summary report form shall be used and submitted to both the Regional Board and County Health Department.

D. MONITORING SPECIFICATIONS

1. Description of Sampling Stations

a. Effluent Station

Description

E-001

Station(s) where a representative sample of treatment plant effluent being diverted for reclamation can be obtained and total diverted flow can be measured.

b. Receiving Waters Station

Description

A-001 thru

Inspection stations located at Richmond Golf and Country Club.

A-00'n

2. Schedule of Sampling and Analyses

- a. The schedule of sampling and analyses shall be that given as Table I.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 90-025.
2. Is effective on the date shown below.
3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer.

Attachments:  
Table 1


  
STEVEN R. RITCHIE  
Executive Officer  
Effective Date 2/24/90

TABLE 1  
SCHEMATIC FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	E-001	A-001 thru A-00'n						
TYPE OF SAMPLES	G <sup>1/</sup>	0						
Reclaimed Wastewater Volume (gallons/day) <sup>2/</sup>	D							
Coliforms (MPN) <sup>3/</sup>	5/W							
BOD (mg/l) <sup>4/</sup>	5/W							

LEGEND

Type of Sample

G = grab sample  
O = observation

Frequency of Sampling

H = once each hour  
D = once each day  
W = once each week

Station

E-1 = station(s) where a representative sample of treatment plant effluent being diverted for reclamation can be obtained and total diverted flow can be measured.

A-001 thru A-00'n' = Inspection stations

- 1/ Samples are required to be taken only at times when reclaimed wastewater is being diverted.
- 2/ Reclaimed wastewater volume shall be listed for the amounts diverted to storage each day.
- 3/ Sample to be taken at the treatment plant just prior to the effluent entering the pressure line.
- 4/ Sample to be taken at the final effluent in the plant, before discharge to the golf course.